

**What is claimed is:**

1. A 5.1 channel signal output mixer circuit for earphone, comprising:
  - a filtering gain unit;
  - a mixing gain unit;
  - 5 a noise reduction gain unit;

wherein said filtering gain unit adjusting a period and an emerging time of a subwoofer signal and magnifying said subwoofer signal; said mixing gain unit mixing said adjusted subwoofer signal with an output signal of a front channel proportionally to form a first signal and magnifying thereof; said

10 noise reduction gain unit removing a high frequency noise from said magnified first signal and magnifying thereof to provide a signal; wherein signal processing through stages comprising said filtering gain unit, said mixing gain unit and said noise reduction gain unit providing consistent signal distortion and achieving optimized clarity and stability of said signal
- 15 2. The circuit of Claim 1, wherein said filtering gain unit comprises two RC filtering circuits for adjusting a front-end waveform and a rear-end waveform of a bandwidth of said subwoofer signal respectively.
3. The circuit of Claim 1, wherein said mixing gain unit comprises a resistor pair having variable resistance ratio to generate different mixing ratios.
- 20 4. The circuit of Claim 1, wherein an amplifier output of said noise reduction gain unit couples a resistor to remove a high frequency noise resulted from magnifying effect of said mixer circuit.
5. The circuit of Claim 1, wherein said mixer circuit is implemented in a external case coupling to earphone and a 5.1 channel audio source respectively.
- 25 6. The circuit of Claim 1, wherein said mixer circuit is implemented in a DVD

device having a 5.1 channel output jack for earphone.

7. The circuit of Claim 1, wherein said mixer circuit is implemented in a TV equipped with a DVD device, said TV comprising a 5.1 channel output jack for earphone.